

140 280 420 560 AAA TTECCCAGTA TTCTTAACCCAACTGCACAGAACAAAAAACCTGCAGATA TTTCGA TCTTGGTGAGAGAGTGAGAGTCCAAGATAGTTAATTTTGGTTGAGGGCA TGGCCATCAG CGCATAGCGTT TITAACGGGTCATAAGAAITGGGTTGA CGTGTCTTGTTTTGGACGTCTATAAGCTAGAAC CACTCTCTCGACACT CATGAGGTTCTATCTGTATCAGTTAATAAACCAACTCCCGTACGGGTATCGCGGTATCGGAC GTB CTATA CECGCCGCTATCTTTATCGGTTTTATTCTACCGCGCATATCTGACGCATATCTTTTATATATCCTAGATTGTACCATTGCGAGCTACGATAACCGTTTCGATGGTGTGCGCATCCTGTCAAGCCT CACGATACGAGATGCGCGGCGATAGAAATAAGATGAGATGGCGCGTATAGACTGCGTATGCGGAAAATATATAGGATCTAA CATGGTAACGCTCGATGCTATTGGCAAAGCTACCACACGCGTAGGACAGTTTCGGA CAGAITCGCCCAAAITCICCGICTCCCTCGITCGCCAICIAICACAGGGAAA CACGCCGAGCGICCTCCTCCGAIAAGCAIGCGTGTCTTGGICTCGCTGTCACCGAACAIAICTGGGCTTGA ura3 PnirA P nir A PnirA EREERE ERE ura3

FIG. 5A

568

TTACCATG

PnirA

. 7
280
0 # -
,

FIG. 5B

170

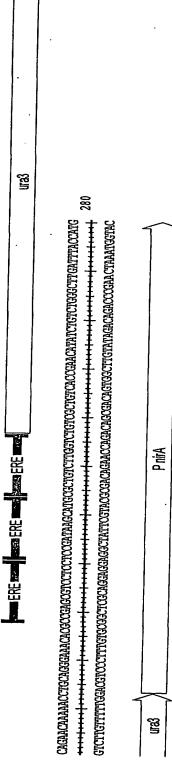
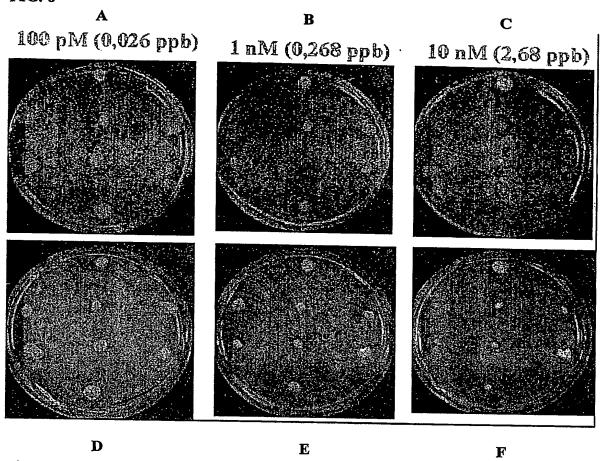


FIG. 50

FIG. 6



parent strain" (WT)

1 2 3
6 transformants pRM 2119
4 5 6
phER strain

FIG. 7

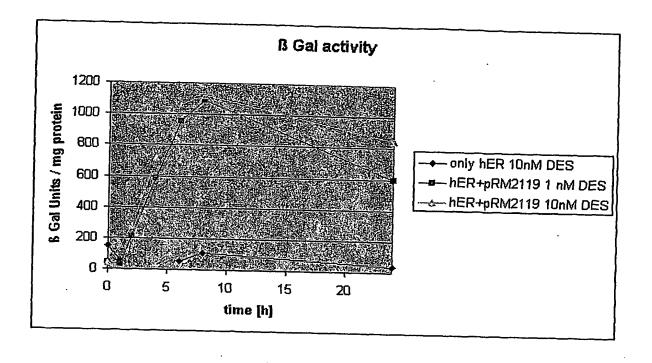


FIG. 8

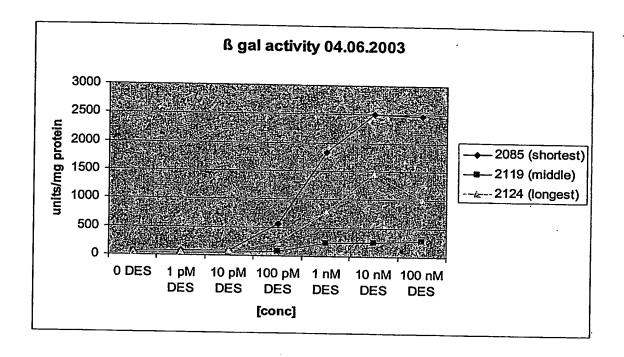
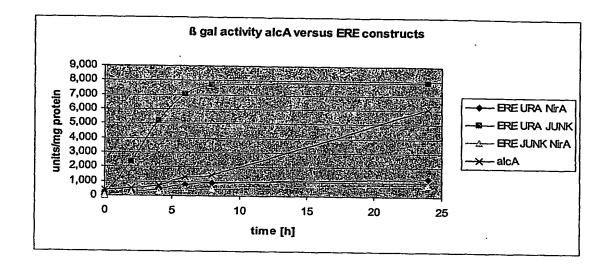




FIG. 9



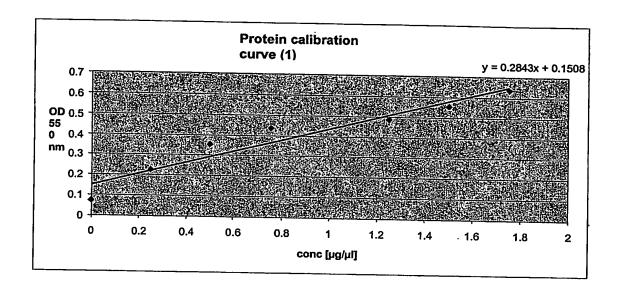
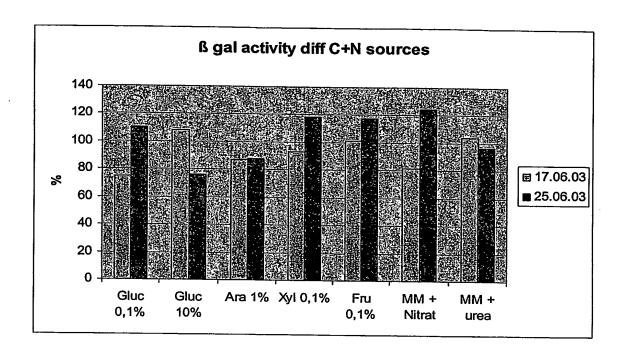


FIG. 11



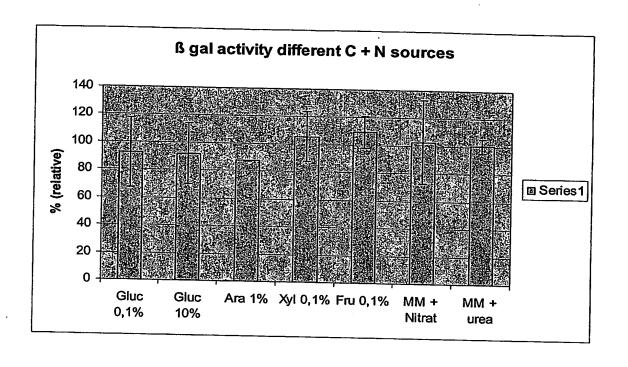
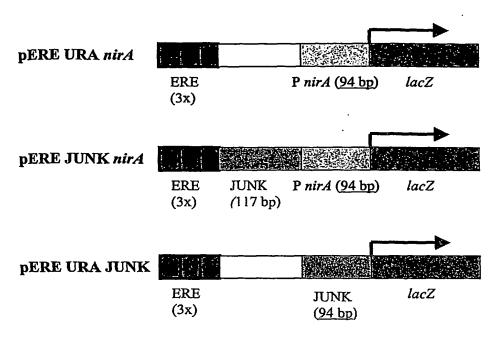


FIG. 13

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JUNK: ß lactamase of E. coli

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